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CENTRAL FAX CENTER

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## IN THE CLAIMS

1. (Currently amended) Polyphase filter comprising:
  - at least two filters, each for filtering an input signal to produce a filtered signal at an output;
  - at least two integrators, each corresponding to one of said filters and coupled to said one of said filters for integrating said filtered signals, each integrator comprising an operational amplifier having one input signal connected to a fixed reference potential;
  - wherein said output of each integrator is coupled via an impedance element to an input of an adjacent integrator of said at least two integrators.
2. (Previously presented) Polyphase filter according to claim 1, wherein said impedance element is a conductance element.
3. (Previously presented) Polyphase filter according to claim 2, wherein wherein said impedance element is a capacitor.
4. (Previously presented) Polyphase filter according to claim 3, wherein said integrator comprises an amplifier with an admittance element in a feedback path thereof.
5. (Previously presented) Polyphase filter according to claim 4, wherein each filter comprises a passive element and wherein an amplifier comprises an operational amplifier.
6. (Previously presented) Polyphase filter according to claim 5, wherein said passive element comprises a resistor and a capacitor and wherein said admittance element comprises a capacitor and a conductance element coupled in parallel to each other.

7. (Previously presented) Polyphase filter according to claim 6, further comprising means coupled between adjacent integrators for performing at least one signal inversion between adjacent integrators.